



Surge arrester

3-electrode arrester

Series/Type: T30-A500X
Ordering code: B88069X3070C203
Version/Date: Issue 04 / 2007-05-08

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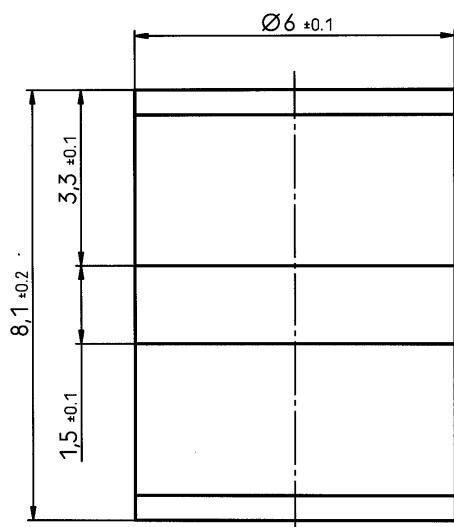
| Features | Applications |
|--|--|
| <ul style="list-style-type: none"> ▪ Very small size ▪ Extremely fast response time ▪ High current rating ▪ Stable performance over life ▪ Extremely low capacitance ▪ High insulation resistance ▪ RoHS-compatible | <ul style="list-style-type: none"> ▪ Line protection ▪ Station protection ▪ Base stations |

Electrical specifications

| | | |
|---|--|--------|
| DC spark-over voltage ^{1) 2) 4)} | 500 ± 20 | V % |
| Impulse spark-over voltage ⁴⁾ | | |
| at 100 V/μs - for 99 % of measured values - typical values of distribution | < 1100 < 900 | V V |
| at 1 kV/μs - for 99 % of measured values - typical values of distribution | < 1400 < 1000 | V V |
| Service life | | |
| 10 operations 50 Hz; 1 s ⁵⁾ | 10 | A |
| 1 operation 50 Hz; 0.18 s (9 cycles) ⁵⁾ | 30 | A |
| 10 operations [5x (+) & 5x (-)] 8/20 μs ⁵⁾ | 10 | kA |
| 1 operation 8/20 μs ⁵⁾ | 10 | kA |
| 1 operation 10/350 μs ⁵⁾ | 2 | kA |
| Insulation resistance at 100 V _{dc} ⁴⁾ | > 10 | GΩ |
| Capacitance at 1 MHz ⁴⁾ | < 1.5 | pF |
| Transverse delay time ³⁾ | < 0.2 | μs |
| Arc voltage at 1 A | ~ 25 | V |
| Glow to arc transition current | ~ 1 | A |
| Glow voltage | ~ 200 | V |
| Weight | ~ 1.4 | g |
| Operation and storage temperature | -40 ... +90 | °C |
| Climatic category (IEC 60068-1) | 40/ 90/ 21 | |
| Marking, blue negative | EPCOS 500 YY O 500 - Nominal voltage YY - Year of production O - Non radioactive | |

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
 - 2) In ionized mode
 - 3) Test according to ITU-T Rec. K.12
 - 4) Tip or ring electrode to center electrode
 - 5) Total current through center electrode, half value through tip respectively ring electrode.
- Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

Dimensional drawing



tin-plated

Not to scale

Dimensions in mm

Non controlled document

Cautions and warnings

- Surge arresters must not be operated directly in power supply networks.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In case of overload, the head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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